

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of:

**Darryl E. RUBIN et al.**

Serial No.: 09/556,865

Filed: April 21, 2000

For: METHOD AND APPARATUS FOR  
DISPLAYING MULTIPLE CONTEXTS IN  
ELECTRONIC DOCUMENTS

Atty. Docket No.: 003797.80028

Group Art Unit: 2178

Examiner: Ludwig, M.

Confirmation No.: 6686

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**DECLARATION UNDER 37 C.F.R. § 1.131**

Sir:

We, DARYL E. RUBIN, JONATHAN C. CLUTS, SUSAN D. WOOLF and JOHN L. BEEZER, hereby declare<sup>1</sup> that:

- 1) We are named as joint inventors of the above-identified patent application, U.S. Application Serial No. 09/556,866;
- 2) We, DARYL E. RUBIN, JONATHAN C. CLUTS, and SUSAN D. WOOLF, are presently employed by Microsoft Corporation (Microsoft) and have been since June 1986, October 1990, and October 1995, respectively. Microsoft is the assignee of the above-identified application.
- 3) I, JOHN L. BEEZER, was previously employed by Microsoft.
- 4) We were employed by Microsoft during development of the inventions in the above-identified patent application.
- 5) Prior to June 30, 1999, the earliest priority date of U.S. Patent No. 6,647,534 we conceived of and reduced to practice the invention recited in at least claims 1-36 of the above-identified application.
- 6) Conception and reduction to practice occurred prior to June 30, 1999, as evidenced by the document entitled "Microsoft Patent Predisclosure Document" prepared by

<sup>1</sup> Each numbered declaration is a joint declaration unless an individual reference has been made. In such a case, the referenced individual or individuals are making the numbered declaration.

Appln No.: 09/556,865  
Rule 131 Declaration

Jonathan Cluts, a copy of which is attached ("the predisclosure document") (dates redacted). As found within the predisclosure document, the "Motivation for the Invention" and "Description of the Invention" portions on pages 1 and 2 and the flow chart and implementation graphics in the "Diagrams and Flowcharts" section on pages 2-5 describe and illustrate displaying multiple contexts of electronic documents as claimed.

- 7) Support for at least claims 1-36 of the above-identified application can be found, among other places, at least within the "Motivation for the Invention" and "Description of the Invention" portions on pages 1 and 2 and the flow chart and implementation graphics in the "Diagrams and Flowcharts" section on pages 2-5 of the predisclosure disclosure document prepared prior to June 30, 1999. Claims 1-7, 11-17, 20-27 and 36 are supported by, for example, the flow chart on page 4 of the predisclosure document, the implementation graphics (pinned page for comparison) on pages 3 and 4 of the predisclosure document and the "Motivation for the Invention" portion on page 1 of the predisclosure document and the first and second paragraphs of the "Description of the Invention" portion on page 1 of the predisclosure document. Claims 8-10, 18, 19 and 28-35 are supported by, for example, the implementation graphics (pinned page as directory index) on page 4 of the predisclosure document and "Motivation for the Invention" portion on page 1 of the predisclosure document and the "Description of the Invention" portion on pages 1 and 2 of the predisclosure document.
- 8) The attached predisclosure document has not been altered since it was originally prepared except for the redaction of references to dates on the documents.
- 9) Each of us individually represent that we are over 18 years of age and of competent mind.
- 10) All statements made of our own knowledge are true and all statements made on information and belief are believed to be true; and further, these statements were made with the knowledge that willful, false statement so made are punishable by fine or imprisonment or both, under 18 U.S.C. § 1001 and that such willful, false

Appin. No.: 09/556,865  
Rule 131 Declaration

statements may jeopardize the validity of the above-identified application or any  
patent issuing thereon.

Respectfully submitted,



DARYL B. RUBIN  
Microsoft Corporation

4/14/04

Date

JONATHAN C. CLUTS,  
Microsoft Corporation

Date

SUSAN D. WOOLF  
Microsoft Corporation

Date

JOHN L. BEEZER

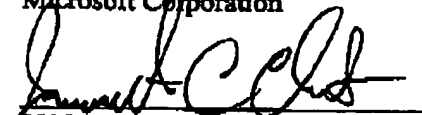
Date

Appln. No.: 09/556,865  
Rule 131 Declaration

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patent issuing thereon.

Respectfully submitted,

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DARYL E. RUBIN  
Microsoft Corporation

  
\_\_\_\_\_  
JONATHAN C. CLUTS,  
Microsoft Corporation

\_\_\_\_\_  
Date

4-15-04  
\_\_\_\_\_  
Date

\_\_\_\_\_  
SUSAN D. WOOLF  
Microsoft Corporation

\_\_\_\_\_  
Date

\_\_\_\_\_  
JOHN L. BEEZER

\_\_\_\_\_  
Date

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Respectfully submitted,

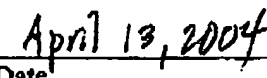
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DARYL E. RUBIN  
Microsoft Corporation

\_\_\_\_\_  
Date

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JONATHAN C. CLUTS,  
Microsoft Corporation

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
SUSAN D. WOOLF  
Microsoft Corporation

  
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Respectfully submitted,

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Microsoft Corporation

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Date

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SUSAN D. WOOLF  
Microsoft Corporation

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
JOHN L. BEEZER

4-15-04  
\_\_\_\_\_  
Date

## Microsoft Patent Predisclosure Document

**Title of Invention:** Displaying multiple contexts in electronic books

**Date:** Dec. 14, 98

**Document Author(s):** Jonathan Cluts

### Introduction

*[Please provide a high level description of the invention, including the names of the people who contributed to the invention.]*

This is an interface technique for keeping multiple contexts open within an electronic book device that displays its content in page format. This method was developed by Darryl Rubin, with contributions from Jonathan Cluts, Suze Woolf, and John Beezer.

### Motivation for the Invention:

*[Describe (1) the problem addressed by the invention (e.g., limitations of prior products of Microsoft, or others), and (2) your solution to the problem (including what "new" things your invention does and a high-level description of how it does them).]*

Page pinning allows an electronic book system to display multiple contexts by "floating" "pinning" "snapshot-ing" or otherwise appearing to "fix" a particular page in relation to another page or pages.

This is useful for several activities. One is the ability to display multiple non-contiguous locations for comparison. An example would be comparing two different texts from two different books, or two locations within the same book to one another.

Another is to hold the context of the page when a command set is navigated. For example, when the user selects a range of text and wishes to refer to a list of commands that are displayed on a different page, the current page with the selected text is pinned, and the command page is displayed as the navigable book.

Finally, page pinning can be used as a navigational element that allows elements or links on one page to navigate the non-fixed portion of the main book to a particular location. In this model, a table of links such as the table of contents for a book, could be used as the pinned page. Tapping a link in the pinned page would cause the main book to navigate to the location pointed to by the link. This allows a user to quickly move through a list of links without having to return to the sole display of list after each navigation.

### Description of the Invention:

*[Describe your proposed implementation of the invention, including the architecture and design details of the implementation. The design details should include a description of the component parts of, and individual operations performed by, your implementation. The use of a specific example, showing how the invention solves the problem being addressed, can be particularly helpful. You should also mention whether you have thought of any other implementations, or applications of, your invention. In most cases, 1-2 pages of description should be adequate to start the patent application process, although a more detailed description may greatly enhance the efficiency of the process.]*

The basic architecture of this system is based around the model of keeping a pointer to a page of an electronic text and displaying it as a secondary page on the electronic book device. The pinned page appears in such a manner as to allow both the pinned page and the main book to be seen at the same time. The navigation controls (page forward, page back, etc.) continue to control the main book, and do not affect the pinned page. It is important to note that the pinned page is simply a view or pointer to the real page in the book, and not an additional copy. Changes made to the pinned page would alter the content of the underlying book in which the pinned page is located and vice versa.

Any page displayed on the electronic book device can be displayed as a pinned page. The page can become pinned through an explicit user action such as selecting the command from a context menu, or may be pinned automatically by the system.

A pinned page contains two fundamental controls, the *make this (page) the (main) book* control, and the *close* control. The *close* control simply dismisses the pinned page from the display. The book it was part of still exists wherever it was located. The *make this the book* control causes the pinned page to become the main book on the electronic device, replacing the currently displayed main book. If the pinned page and the main book are different portions of the same book, making the pinned page the book causes the device to navigate to the location of the formerly pinned page.

Tapping links within a pinned page navigates the main book (rather than the pinned page) to the location that the tapped link points to. This might be within the same book, another book on the device, or if connected to the Internet, anywhere the link may point to.

**Diagrams and Flow Charts:**

*[To support the description provided above, please include: (a) at least one block diagram showing the architecture of the system that implements your invention, and (b) at least one diagram illustrating the primary steps performed by your invention.]*



(a) Flow Chart

Unpinned Book

Page One:	Page Two:
<p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet</p> <p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet</p> <p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet orem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet</p>	<p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet</p> <p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet orem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem</p>

Pinning Page Two

Page One:	Page Two:
<p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet</p> <p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet</p> <p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet orem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet</p>	<p>Page Two:</p> <p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet</p> <p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet orem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem</p>

Pinned Page 2 over page 5-6

Page Five:	Page Six:
<p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet orem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet</p>	<p>Page Two:</p> <p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet</p> <p>Lorem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet orem ipsum dolor sit amet del cnsectzuor del amet del ipsum ldolor sit amet Lorem</p>

(b) Implementation Graphic (Pinned Page for comparison)

## explainer

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## Will Starr's findings remain secret?

Posted at 4:09:00 PM PST

American law is very clear: Outside of extraordinary circumstances, grand jury testimony is to be kept secret. Yet journalists tell us that the findings of Kenneth Starr's grand jury will ultimately be released. Why doesn't the principle of grand jury secrecy apply to Starr's findings?

If Starr uncovers "specific and credible" evidence of impeachable offenses during his investigation, the Independent Counsel statute requires him to pass the evidence--including grand jury testimony--along to the House of Representatives. (The House decides whether to impeach the president. Impeachment--like a grand jury indictment--means only that a full-bore trial is warranted. The Senate has the job of trying impeachment. In other words, the Senate--like a trial jury--rules on guilt or innocence.) Though the House plays the role of a grand jury, it is not in fact

## CHAPTER XXI

## HOW A FRENCHMAN MANAGES AN AFFAIR

While the contract of this duel was being discussed by the president and the captain--this dreadful/savage duel, in which each adversary became a man-hunter--Michel Ardan was resting from the fatigues of his triumph. Resting is hardly an appropriate expression, for American beds rival marble or granite tables for hardness.

Ardan was sleeping, then, badly enough, tossing about between the cloths which served him for sheets, and he was dreaming of making a more comfortable couch in his projectile when a frightful noise disturbed his dreams. Thundering blows shook his door. They seemed to be caused by some iron instrument. A great deal of loud talking was distinguishable in this racket, which was rather too early in the morning. "Open the door," some one shrieked "for heaven's sake!" Ardan saw no reason for complying with a demand so roughly expressed. However, he got up and opened the door just as it was giving way before the blows of this determined visitor. The secretary of the Gun Club burst into the room. A bomb could not have made more noise or have entered the room with less ceremony.

"Last night," cried J. T. Maston, *ex abrupto*, "our president was publicly insulted during the meeting. He provoked his adversary, who is none other than Captain Nicholl! They are fighting this morning in the wood of Skersnaw. I heard all the particulars from the mouth of

(c) Implementation Graphic (Pinned Page as directory index)

The screenshot shows a Microsoft Word document with a pinned page. The document is divided into two main sections. The left section, titled 'MESSAGES', contains a list of email messages with columns for date, time, sender, and subject. The right section, titled 'REPLY | REPLY ALL | FORWARD | DELETE', contains a detailed email thread and a progress report.

**MESSAGES**

DATE	TIME	FROM	SUBJECT
9/01/98	9:28a	Jon Cluts	Status Report
9/02/98	9:28a	Jon Cluts	RE: Context Menus
9/03/98	9:28a	Darryl Rubin	RE: Context Menus
9/04/98	9:28a	Ed Fotheringham	Don't miss this.
9/05/98	9:15a	Garth Brooks	Don't miss this.
9/06/98	7:25a	Garth Brooks	Forget about it
9/07/98	9:28a	Garth Brooks	Every good boy deserves favor.
9/08/98	9:28a	Courtney Cox	Be there or be square.
9/09/98	9:59a	Drew Baird	Don't miss this.
9/10/98	9:25a	Drew Baird	Cat got your tongue?
9/11/98	9:28a	Bob Dylan	Get your butt in here.
9/02/98	9:28a	Jon Cluts	RE: Context Menus
9/03/98	9:28a	Darryl Rubin	RE: Context Menus
9/04/98	9:28a	Ed Fotheringham	Don't miss this.
9/05/98	9:15a	Garth Brooks	Don't miss this.
9/06/98	7:25a	Garth Brooks	Forget about it
9/07/98	9:28a	Garth Brooks	Every good boy deserves favor.
9/08/98	9:28a	Courtney Cox	Be there or be square.
9/09/98	9:59a	Drew Baird	Don't miss this.
9/10/98	9:25a	Drew Baird	Cat got your tongue?
9/11/98	9:28a	Bob Dylan	Get your butt in here.
9/02/98	9:28a	Jon Cluts	RE: Context Menus
9/03/98	9:28a	Darryl Rubin	RE: Context Menus
9/04/98	9:28a	Ed Fotheringham	Don't miss this.
9/05/98	9:15a	Garth Brooks	Don't miss this.
9/06/98	7:25a	Garth Brooks	Forget about it
9/07/98	9:28a	Garth Brooks	Every good boy deserves favor.

**REPLY | REPLY ALL | FORWARD | DELETE**

11/16/98 / 11:04p SUBJECT: jonC Status  
TO: CPD Prototyping All  
FROM: jonC  
CC: darrylr

**Progress**

- ePad team is up and using Raid, all current work items for ePad are in Raid
- Graphic integration is going well. There are still some outstanding features, but we are still on track for 11/1
- Met with the eBook team, and go briefed on their strategy
- Finalized plans for team event and sent out reminder and directions mail
- Had good brainstorming session with Darryl, et al on quicksheets
- Met with dBaum and Rick Bakken from hardware on Home 2.0 infrastructure
- Met with Suze on presentation strategies for PaulMa review
- Updated my goals for Suze

**Priorities**

- Drive overall progress for ePad M2 milestone for PaulMa review (11/16)
- Update next milestones in slides for PaulMa review (11/6)
- Get design feedback from Suze, and Pierre on current ePad proto (11/9)
- Produce first draft proposal for archiving and send out for feedback (11/6)
- Provide direction and input for directs on projects (on going)

**Problems**

- none

**Postponed**

- I didn't get to Produce first draft proposal for archiving and send out for feedback (11/2). I have added to Priorities for next week.

</n>

**Additional Information:**

- List the names of any people who contributed to the invention.

Darryl Rubbin, Jonathan Cluts, Suze Woolf, John Beezer

- List any earlier, current or anticipated MS products that may use your invention:

No earlier products, eBook may use this idea.

- List and attach (or provide pointers to) any documents that provide additional information about your invention or the product to which it relates, including specifications, journal articles, slide presentations, test/performance results, etc.]



"Personal Viewers  
Memo.doc"

- List any other sources that would provide helpful background information or illustrate prior work of others in this area (including, e.g., journal articles, text books, product literature, products, and specifications):

none